Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application.

Please cancel claims 6, 8, 15-37 and 46-51 without prejudice.

Please amend claims 1, 5, 7, 9, 13, 38 and 42 as indicated below (material to

be inserted is in bold and underline, material to be deleted is in strikeout or (if the

deletion is of five or fewer consecutive characters or would be difficult to see) in double

brackets [[]]):

**Listing of Claims:** 

(Currently Amended) A display device comprising:

a spatial light modulator having an array of modulating elements forming a

plurality of image regions; and

a light generator configured to direct a different one of a plurality of

substantially stationary light bands onto each of the plurality of image regions; and

a controller including a spatial image separator configured to assign

received image information to a corresponding one of the image regions, the

controller being configured to control modulation of the spatial light modulator

appropriate to produce a separate image in each image region.

2. (Original) The display device of claim 1, where the plurality of light

bands includes at least one of a red light band, a green light band, and a blue light

band.

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 (Original) The display device of claim 1, where the light generator is configured to direct the plurality of bands of light onto image regions having at least

one aligned edge.

4. (Original) The display device of claim 3, where the image regions are of

the same size.

5. (Currently Amended) The display device of claim 4, where the array of

imaging modulating elements has a generally rectangular shape with adjacent sides

having relative sizes, and the image regions have generally rectangular shapes with

adjacent sides having relative sizes different than the relative sizes of the array of

imaging modulating elements.

6. (Cancelled)

7. (Currently Amended) The display device of claim [[6]] 1, where the

light bands are of different colors, and the controller is configured to control

modulation of the spatial light modulator appropriate to produce differently colored

component images of a composite image.

8. (Cancelled)

(Currently Amended) The display device of claim 1, further comprising:

A display device comprising:

a spatial light modulator having an array of modulating elements

forming a plurality of image regions:

a light generator configured to direct a different one of a plurality of light

bands onto each of the plurality of image regions:

a buffer adapted to receive image data for an image and buffer the image

data to create a frame of the image;

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an image processing unit adapted to define a first sub-frame and at least a second sub-frame for the frame of the image from the image data, the second sub-frame being spatially offset from the first sub-frame, the image processing unit cooperating with the spatial light modulator to modulate at least one of the image regions according to the first and second sub-frames; and

a display device adapted to alternately display the first sub-frame in a first position and the second sub-frame in a second position spatially offset from the first position.

- 10. (Original) The display device of claim 9, where the display device is adapted to overlap pixels of the first pixel matrix with pixels of the second pixel matrix.
- 11. (Original) The display device of claim 9, where the second sub-frame is spatially offset at least one of a vertical distance and a horizontal distance from the first sub-frame, and wherein the display device is adapted to shift display of the second sub-frame from display of the first sub-frame by the at least one of the vertical distance and the horizontal distance.
- 12. (Original) The display device of claim 9, where the image processing unit and spatial light modulator cooperate to modulate a first image region with the first sub-frame and to modulate a second image region with the second sub-frame.
  - 13. (Currently Amended) A display device comprising:
  - a light source configured to produce multi-spectral light;
- a spatial light modulator configured to modulate light received in a plurality of regions according to component images of a received composite image;

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an optical separator configured to separate multi-spectral light into a plurality of colored light bands, and to direct the light bands onto the regions of the spatial light modulator; and

an optical combiner configured to combine the modulated light bands into a composite light band; and

- a controller configured to control modulation of the spatial light modulator appropriate to produce differently colored component images of a composite image, the controller including a spatial image separator configured to assign received image information to a corresponding one of the image regions .
- 14. (Original) The display device of claim 13, further comprising projection optics configured to direct the composite light band toward a display medium.
  - 15. (Cancelled)
  - 16. (Cancelled)
  - 17. (Cancelled)
  - 18. (Cancelled)
  - 19. (Cancelled)
  - 20. (Cancelled)
  - 21. (Cancelled)
  - 22. (Cancelled)
  - 23. (Cancelled)
  - 24. (Cancelled)
  - 25. (Cancelled)
  - 26. (Cancelled)

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- 27. (Cancelled)
- 28. (Cancelled)
- 29. (Cancelled)
- 30. (Cancelled)
- 31. (Cancelled)
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Cancelled)
- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Cancelled)
- 38. (Currently Amended) A display device comprising:

a spatial light modulator having an array of modulating elements configured to spatially modulate incident light; and

a controller configured to control modulation of the spatial light modulator appropriate to produce an image in each of a plurality of separate image regions of the array of modulating elements according to received image information, where the controller further includes a spatial image separator configured to assign received image information to a corresponding one of the image regions.

39. (Original) The display device of claim 38, where the controller is further configured to control modulation of the spatial light modulator appropriate to produce a component image, in each of the plurality of image regions, of a received composite image.

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- 40. (Original) The display device of claim 39, where the component images correspond to images of different colors, and the controller is configured to control modulation of the spatial light modulator appropriate to produce differently colored component images that when combined form a composite colored image.
  - 41. (Cancelled)
- 42. (Currently Amended) The display device of claim 38, where the controller further comprises: A display device comprising:
- a spatial light modulator having an array of modulating elements

  configured to spatially modulate incident light; and
- a controller configured to control modulation of the spatial light modulator appropriate to produce an image in each of a plurality of separate image regions of the array of modulating elements according to received image information, the controller comprising:

a buffer adapted to receive image data for the image and buffer the image data to create a frame of the image; and

an image processing unit adapted to define a first sub-frame and at least a second sub-frame for the frame of the image from the image data, the second sub-frame being spatially offset from the first sub-frame, the image processing unit cooperating with the spatial light modulator to modulate at least one of the image regions according to the first and second sub-frames;

wherein the display device further comprising comprises a display device adapted to display the first sub-frame in a first position and the second sub-frame in a second position spatially offset from the first position.

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- 43. (Original) The display device of claim 42, where the display device is adapted to overlap pixels of the first pixel matrix with pixels of the second pixel matrix.
- 44. (Original) The display device of claim 42, where the second sub-frame is spatially offset at least one of a vertical distance and a horizontal distance from the first sub-frame, and wherein the display device is adapted to shift display of the second sub-frame from display of the first sub-frame by the at least one of the vertical distance and the horizontal distance.
- 45. (Original) The display device of claim 42, where the image processing unit and spatial light modulator cooperate to modulate a first image region.
  - 46. (Cancelled)
  - 47. (Cancelled)
  - 48. (Cancelled)
  - 49. (Cancelled)
  - 50. (Cancelled)
  - 51. (Cancelled)